

## List 1

### MANUSCRIPTS FROM CSD2021 SENT FOR PUBLICATION TO THE SECTIONS OF THE BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI (BIPI)

BIPI Section: **ELECTRICAL ENGINEERING. ENERGETICS. ELECTRONICS**

<http://www.bulipi-eee.tuiasi.ro>

Sent on: 29.03.2021

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	Authors	Manuscript	Conference section
1.	Casian Miron, Laura Ioana Grigoras, Radu Ciucu, Vasile Manta	Eye Image Segmentation Method Based on the Modified U-Net CNN Architecture	Computers and information technology; Systems engineering
2.	Alexandru-Gabriel Tudorache, Vasile-Ion Manta, Simona Caraiman	Implementation of the Bernstein-Vazirani Quantum Algorithm using the Qiskit Framework	
3.	Otilia Zvorișteanu, Simona Caraiman, Vasile-Ion Manta	Towards real-time semantic instance segmentation	
4.	Ovidiu Pauca, Constantin-Florin Caruntu, Anca Maxim, Corneliu Lazar	Control Architecture For Automated Vehicles to Ensure Obstacle Avoidance	
5.	Narcisa-Daniela Ștefănescu	Evaluating the Performance of a Linear Model used in Regression	
6.	Dorin Boțoc, Adrian Pleșca	Heating Properties of Gadolinium Magnetocaloric Material under the influence of a Controlled Magnetic Field	Electrical engineering; Energy engineering; Electronic engineering,
7.	Dorin Boțoc, Adrian Pleșca	The Effect of Thermal Conductivity and the Cooling Capacity of the Materials	

8.	<b>Dragos Murgoci</b> , Maricel Adam	Prior Art Domain Study of the Synchronous Machine with Variable Geometry	<b>telecommunications and information technology</b>
9.	<b>Alexandru Viorel Rusu</b> , Gheorghe Livinț	Automated Method for Searching Optimal Solution in Street Lighting Design	
10.	<b>George Cercel</b> , Cosmin Tiganasu, Ciprian Nemes	Photovoltaic Panels Analysis Base on Simulink Tools	
11.	<b>Eugen Hopulele</b> , Mihai Gavrilas	Optimal Operation of a Trigeneration System Designed to Supply an Electricity, Heating and Cooling Consumer	
12.	<b>Alexandru Kriukov</b> , Mihai Gavrilas	Smart Charging of Multiple EVs in Smart Grid Radial Low Voltage Distribution Networks	
13.	<b>Cosmin Tiganasu</b> , George Cercel, Ciprian Nemes	An Overview of the Home Energy Management System	
14.	<b>Vasile Grosu</b>	Aspects Regarding Machine Learning Principles	
15.	<b>Viorel-Stefan Savinescu</b> , Ioan-Alexandru Nica, Liviu Goras	A Tunable 3 <sup>rd</sup> – Order Low – Pass Filter for ECG Acquisition Using Capacitance Multiplier	
16.	<b>Ionut-Cristian Severin</b>	System for Detecting the Transmission error Rate During Wi-Fi Communication with CC3220SF Launchpad	
17.	<b>Noemi-Clara Rohatinovici</b> , Valentina Emilia Bălaș, Octavian Proștean	A Short Overview on Networks	

## BIPI section: **MATERIALS SCIENCE AND ENGINEERING**

<https://sim.tuiasi.ro/cercetare/publicatii/buletinul-institutului-politehnic-din-iasi-bipi/>

<https://sim.tuiasi.ro/wp-content/uploads/2022/03/Vol.-SIM-1-2-din-2021.pdf>

<https://sim.tuiasi.ro/wp-content/uploads/2022/03/Vol.-SIM-3-4-din-2021.pdf>

Sent on: 24/03/2021

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	<b>Authors</b>	<b>Manuscript</b>	<b>Conference section</b>
1.	<b>Roxana Nastasă</b> , Corneliu Munteanu, Bogdan Istrate	Recent Research ON Mg-Based Biodegradable Alloys-Review	<b>Mechanical engineering; Industrial engineering; Materials</b>

2.	<b>Raul George Ciubotariu</b> , Dan Eliezer, Corneliu Munteanu, Bogdan Istrate	Application of Hollow Glass Fibers Structures as High Pressure Storage System for Hydrogen	<b>engineering; Engineering and management</b>
3.	<b>Cornelia Cîrlan Paleu</b> , Corneliu Munteanu, Anișoara Dascălu, Viorel Paleu	Failure Modes of Pumps' Mechanical Parts and Coating Solutions for Wear Problems	
4.	<b>Andrei Ratoi</b> , Dan Eliezer, Corneliu Munteanu	A Combined Materials Science and Mechanical Approach to the Study of Hydrogen Embrittlement of Structural Materials	
5.	<b>Elena Ionela Chereches</b> , Marius Ionut Chereches, Alina Adriana Minea	Analysis of the Operating Behavior of Some Mixtures: Water, Ionic Liquid, Nanoparticles	
6.	<b>Marius Ionut Chereches</b> , Elena Ionela Chereches And Alina Adriana Minea	Studies on Phase Change Materials Improved with Nanoparticles	
7.	<b>Dragoș-Stefan Gherghescu</b>	Traditional Techniques and Natural Construction Materials in Romania	

## BIPI Section: **CHEMISTRY AND CHEMICAL ENGINEERING**

<http://www.bipic.icpm.tuiasi.ro/>

Sent on: 23.03.2021

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	<b>Authors</b>	<b>Manuscript</b>	<b>Conference section</b>
1.	<b>Victoria Bejenari</b> , Mirela-Anastasia Moraraș, Maricel Danu, Constanta Ibanescu, Gabriela Lisa	Physico-Chemical Characterization of Arabica and Robusta Spent Coffee Blends	<b>Chemistry; Chemical engineering; Environmental engineering</b>
2.	<b>Iolanda Fusteș-Dămoc</b> , Cătălina Anișoara Peptu, Teodor Măluțan	Thiolated Chitosan for Biomedical Application	
3.	<b>Andreea Mihăilă</b> , Cătălin Lisa, Ioan Mămăligă, Gabriela Lisa	Evaluation of the Drying Process of Some Varnishes and Paints Applied on Fir Wood	

4.	<b>Cristina Carmen Stingu (Palici)</b> , Valentin Nedeff, Ion Sandu, Viorica Vasilache, Mihaela Orlanda Antonovici (Munteanu)	The Impact of Climate Change on the Natural Reservation „Poiana Cu Schit” from Iasi County	
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## BIPI Section: **CONSTRUCTIONS and ARCHITECTURE**

<http://www.bipcons.ce.tuiasi.ro/>

Sent on: 24.03.2021

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	Authors	Manuscript	Conference section
1.	<b>Ionut-Cristian Branca</b>	Considerations on Solutions for Heating and Cooling of Cult Buildings	<b>Civil engineering and installations</b>
2.	<b>Marius Brănoaea</b> , Andrei Burlacu	A Review on the Energy Performance and Efficiency of Radiant Floor Heating Systems with Integrated Phase Change Materials	
3.	<b>Alexandra Cojocaru</b> , Dorina Nicolina Isopescu	Passive Strategies of Vernacular Architecture for Energy Efficiency	
4.	<b>Dumitru-Dragos Hanganu</b>	Notes About Crushing Sand from Bituminous Schist	
5.	<b>Patrick Heinemann</b> , Dorina Isopescu, Sebastian Maxineasa	Case Studies on Finite Element Modeling of Welded Joints	
6.	<b>Dana-Ramona Nanea</b>	Notes about BF Sludge as a Potential Use as Filler in Asphalt Mixture Composition	
7.	<b>Andreea Elena Nantu</b> , Ștefan Filip Ursaciuc	Risk Assessment of Accidents and Occupational Diseases on Construction Site	
8.	<b>Alexandra Pamfil</b> , Petru Mihai	Compression Resistance of Concrete	
9.	<b>Radu Rusu</b> , Andrei Bejușcă, Ion Șerbănoiu	The Importance of Entrepreneurial Management in the Civil Construction Branch	
10.	<b>Cătălin Sbîrlea</b> , Dorina Nicolina Isopescu	Autonomous Processes in Concrete Matrix on bio Products	

11.	Robert Ștefan Vizitiu	Experimental Investigation on the Optimum Filling Ratio of Heat Pipes used for Heat Recovery Systems	
12.	Ionuț Dohotariu	Adaptive Architecture – A Beneficial Interaction with Technology	

## BIPI Section: **HYDROTECHNICS**

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	Authors	Manuscript	Conference section
1.	Ioana Agapie (Mereuță), Mihail Luca, Paul Marian Gherasim	Research on the Monitoring of Earth Dams with GNSS Technology	<b>Civil engineering and installations</b>
2.	Andrei Berindean, Alexandru Topolniceanu, Anca Danila	Aspects Regarding the Special Tracking of the Dams	
3.	Andrada-Ionela Bucatariu, Gilda Gavrilaş	Measures of Sustainable Development of Water Supply Systems	
4.	Magdalena Chearu (Șârbu)	Theoretical Analyzes Regarding Groundwater Movement	
5.	Gabriela Dorin, Florian Stătescu	Study of the Hydraulic Characteristics of the Soil	
6.	Violeta Dominte (Croitoru), Mihail Luca	Considerations on Floods in the Prut Bârlad Basin	
7.	Cozmin Drăgoi Chislingher, Mihail Luca	Considerations on Surface Water Pollution in Romania	
8.	Anamaria Jijian, Mihai Dima	The Importance of Ecological Education at Academic Level in Regards to the Environmental Quality Protection	
9.	Ioan-Corneliu Marțincu, Anca Dănilă, Raluca Giurma-Handley	Watershed Delineation in Flat Urban Areas using GIS Techniques	
10.	Clarisa Paraschivescu, Ciprian Vorovei, Raluca Catrinel Giurma-Handley	Probabilistic Methods for Determining Flood Waves	
11.	Cosmin Marian Paerele, Clarisa Paraschivescu, Marius Telișcă, Catrinel Raluca Giurma-Handley	Analysis of Torrential Rainfall and Automatic Monitoring of the Rainfall Regime in the Catchment of the Slanic River, Bacău County	
12.	Costel-Cătălin Prăjanu, Florian Stătescu, Daniel Toma, Cristina-Mihaela Vîrlan (Toma)	The Dissolved Oxygen Concentration (DO) from an A2/O Bioreactor Supplied with Counter Current Oxygen	

13.	Paul Vivian Sion, Mihail Luca	Ecological State Considerations of the Moldova River in the Cordun Area	
14.	Ştefan - Andrei Sticea, Mihail Luca	Studies and Research on Water Losses from Irrigation Systems	
15.	Ionuţ-Emilian Todirică, Raluca Giurma-Handley	Pressure Management for Leakage Reduction in Water Distribution Systems	
16.	Alina Maria Toma, Florian Stătescu	Considerations Regarding the Land Fund of the NE Region of Romania	
17.	Alexandru Topolniceanu, Ion Giurma, Andrei Berindean	Prevention and Flood Protection in Prut River Basin, through the Implementation of a Modern Monitoring System with Automatic Stations	
18.	Cristina-Mihaela Vîrlan (Toma), Florian Stătescu, Daniel Toma, Costel-Cătălin Prăjanu	Analysis of Behaviour of the Water Supply System in Iaşi City	
19.	Andrei-Vladuţ Vlasie	Urban Flood Management	

## BIPI Section: **MACHINE MANUFACTURING**

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	Authors	Manuscript	Conference section
1.	Adrian Câcu, Eugen Purice, Laurenţiu Larco	Lean Concept Disambiguation Using Taxonomy Approach	<b>Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management</b>
2.	Corneliu-Daniel Ghiorghe, Doru Călăraşu	Aspects Concerning the use of Magnetoreological Fluids in Construction of Shock Absorbers	
3.	Diana Petronela Bistriceanu, Carmen Bujoreanu	Experimental Investigation on Assembly Process for High Pressure Injection Pump Components	

4.	<b>Răzvan-Constantin Iordache</b> , Carmen Bujoreanu	Fractures Analysis in High-Pressure Pumps	
5.	<b>Victor Stajilov</b> , Carmen Bujoreanu	Survey on Regenerative Braking in Electrical and Hybrid Vehicles	
6.	<b>Aida Maria Vranău</b> , Carmen Bujoreanu, Vasile Caunii	Solutions for Reducing the Energy Consumed by the Automotive HVAC System	
7.	<b>Vasile Ermolai</b> , Alexandru Ionuț Irimia	Influence of Nozzle Parameters in 3D Printing under the Manufacturing Time	
8.	<b>Andra-Teodora Nedelcu</b> , Cătălin Faităr, Nicolae Buzbuchi, Liviu Stan	Study Simulation of Umbilical Cable for Underwater Vehicle	
9.	<b>Stefan Sorin</b>	Operation of the pumping system with rods	
10.	<b>Robert-Gheorghe Vlădescu</b>	Problems in Insuring Maintenance of Transport Systems of Fluid Hydrocarbons through Metal Pipes	
11.	<b>Robert-Gheorghe Vlădescu</b>	Methods of Carrying out the Anticipative Maintenance of Fluid Hydrocarbons Transport Systems	

## BIPI Section: **TEXTILES – LEATHER**

Sent on: 24.03.2021

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	Authors	Manuscript	Conference section
1.	<b>Carmen-Melania Blejan</b> , Antonela Curteza	Researches on the Integration of Aesthetic Perception and Ergonomic Design of Women 'S Clothing	<b>Mechanical engineering;</b> <b>Industrial engineering;</b> <b>Materials engineering;</b> <b>Engineering and management</b>
2.	<b>Victoria Bocancea</b> , Carmen Loghin	The Impact of 3D Design Technologies on the Development of Made-to-Measure Clothing Products	
3.	<b>Victoria Danila</b> , Antonela Curteza	The Impact of Physical Development of Premature Babies on Designing Functional Clothes	
4.	<b>Victoria Danila</b> , Antonela Curteza	Study of the Equipment Used in the Neonatal Therapy Unit for the Development of Functional Clothing for Premature Babies	

5.	<b>Cristina Grosu</b> , Mirela Blaga	Human Body Vibration. Study about the Influence of Knitted Structures Parameters Against the Negative Effects of the Phenomenon
6.	<b>Bogdan-Alexandru Pântescu</b>	Electronic Textiles as Potential Functional Products for People with Special Needs
7.	<b>Razvan Scarlat</b> , Mirela Blaga	New Technological Solutions for Abdominal Wall Repair Invasive Medical Devices Development
8.	<b>Arina Seul</b> , Aura Mihai, Antonela Curteza	Optimising the Footwear by Simulation and Evaluation of the Design Parameters
9.	<b>Eduard Ionuț Ștefan</b> , Mirela Blaga	Intellectual Property Right Regarding Knitting Processes or Products
10.	<b>Diana-Roxana Viziteu (Tarași)</b> , Antonela Curteza	Performance Characteristics of Apparel for Mountain Rescue Teams
11.	<b>Luminita Cristina Simion</b> , Silvia Avasilcai	Industrial Evolutions Waves from 1.0 To 4.0- Similarities, Differences and Impact on Society and Human Labour Force
12.	<b>Liliana Aioanei</b> , Mihaela Luminita Lupu	Research on the Management of the Pre-School Education Institutions in Romania in the Conditions of Decisional Autonomy
13.	<b>Ana-Maria Apetrei (Gulei)</b>	The Importance of Unlearning for the New ilt Products Success in the Apparel Industry
14.	<b>Sebastian Bîrzu</b> , Silvia Avasilcăi	A Brief History of Digital Marketing: The Evolution that Started in the 1980s
15.	<b>Bogdan Bologa</b>	Mobility and Migration of Human Resources
16.	<b>Iulia Vasilica Costan</b> , Ion Verzea	Sustainability Versus Sustainable Development in Literature Review
17.		Management of Pre-School Education Institutions - Training and Increasing Staff Quality
18.	<b>Vasilica Damaschin</b> , Mihaela Luminita Lupu	Management of Pre-School Education Institutions - Training and Increasing Staff Quality
19.	<b>Monica Jidoi (Toplicean)</b> , Mihaela Luminita Lupu	Bibliographical Study Regarding the Research of Strategies, Recruitment, Selection and Integration of Employees in the Project Teams in The Realization of the Human Resources Management of the Projects, as Integrated Management in the Human Resources Management of Universities
20.	<b>Letiția C. Lucescu</b> , Silvia Avasilcăi	Organizational Agility: Implications, Significance aAnd Paradox
21.	<b>Florin St. C. Mustata</b> , Antonela Curteza	An Approach of Recycling Rubber Waste with Applications in Industry



<b>22.</b>	<b>Nicoleta Slabu,</b> Mihaela Luminita Lupu	Bibliographic Study on the Use of Communication in Relation to the School Relationship - Coordinating Institutions	
<b>23.</b>	<b>Mihaela Brîndușa Tudose,</b> Silvia Avasilcăi	Advantages and Disadvantages of the Measuring Methods of the Organizational Performance. A Review	
<b>24.</b>	<b>Cristian Vartolomei,</b> Silvia Avasilcăi	Challenges of the Virtual Business Environment as a Result of Cyber-Attacks. The Role of Scientific Research in Combating Them	

## List 2

### MANUSCRIPTS FROM CSD2021 SENT FOR PUBLICATION TO THE SECTIONS OF THE BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI (BIPI)

BIPI Section: **ELECTRICAL ENGINEERING. ENERGETICS. ELECTRONICS**

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	Authors	Manuscript	Conference section
1.	Andrei Lazar	The multi-sensory experience enabled by using state-of-the-art technology in luminaires	Electrical engineering; Energy engineering; Electronic engineering, telecommunications and information technology
2.	Mihaela Popa	Carbon offset calculators	
3.	Mostafa Abotaleb, Janusz Mindykowski, Boleslaw Dudojc And Romuald Masnicki	Digital communication links cooperating with the Analog 4-20 MA standard for marine applications	
4.	Sofia Hustiu, Cristian Mahulea, Marius Kloetzer, Octavian Păstrăvanu	Prerequisites to design a collision free trajectory in a 3D dynamic environment for an UAV	
5.	Achirei Stefan-Daniel	Short literature review for visual scene understanding	
6.	Roman Nechifor Madalina	An application to estimate the potential of rooftop photovoltaic power generation for a residential building	
7.	Marian Atanasoaei, Maricel Adam, Mihai Andrusca, Alin Dragomir, Cosmin Nistor Deac	Aspects regarding the use of electronic power devices in power grid	

**BIPI section: MATERIALS SCIENCE AND ENGINEERING**

<https://sim.tuiasi.ro/cercetare/publicatii/buletinul-institutului-politehnic-din-iasi-bipi/>

<https://sim.tuiasi.ro/wp-content/uploads/2022/03/Vol.-SIM-1-2-din-2021.pdf>

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	Authors	Manuscript	Conference section
1.	Ilie Cojocariu	Nanotechnologies and nanomaterials used in heritage conservation and restoration: from red iron rust to black magnetite dust	Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management
2.	Lenuța Ciurcă, Bogdan Pricop, Nicanor Cimpoșu, Maricel Agop, Leandru-Gheorghe Bujoreanu	Creep behaviour of a FeMn shape memory alloy	
3.	Ahmad Awana, Laura Geambazu, Adnan. I. Zaid, Ioana Csaki	Comparison Between the Effect of Molybdenum Addition to Aluminum Grain Refined by Titanium Plus Boron On its Hardness	

**BIPI Section: CHEMISTRY AND CHEMICAL ENGINEERING**

<http://www.bipcic.icpm.tuiasi.ro/>

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	Authors	Manuscript	Conference section
1.	Coșbuț Ersilia Daniela, Ungureanu-Comăniță Elena-Diana, Gavrilescu Maria	Food waste: current trends, global perspectives and impacts	Chemistry; Chemical engineering; Environmental engineering

**BIPI Section:**

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	<b>Authors</b>	<b>Manuscript</b>	<b>Conference section</b>
1.	Carmen Botezatu, Adelina Hrițuc, Ionuț Condrea, Bogdan Oroian, Marius Boca, Laurențiu Slătineanu	Educational approaching management of the chemical engraving process	Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management
2.	Georgiana-Alexandra Moroșanu, Virgil-Gabriel Teodor, Nicolae Oancea	Profiling of the generating rack of an ordered curl known in discrete form by the virtual pole method	
3.	Mihai-Vasile Roman, Daniela Popescu	Effect of anti-corrosion treatment applied to diesel injector nozzles	
4.	Kamil Lysek, Aleksander Gwazda, Krzysztof Herbuś	Modal analysis - design optimization by selecting material parameters	
5.	Kamil Lysek, Aleksander Gwazda, Krzysztof Herbuś	The stress analysis of the milling machine structure	
6.	Daniela Gabriela Ciobanu Iorgoia	Preliminary approach in the study of the process of manufacturing by electrochemical erosion	
7.	Anca Bleoju, Gabriel-Emil Pruteanu, Costel-Iulian Mocanu	The opportunity of high strength steels utilization for a vlcc fore peak structure	

**BIPI Section: TEXTILES – LEATHER**

Sent on: 11.10.2021

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	<b>Authors</b>	<b>Manuscript</b>	<b>Conference section</b>
1.	Lucia-Oana Secareanu, Mirela Blaga	Review on different types of clays and their use as antimicrobial agents for cosmetic textiles	Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management
2.	Aliona Raru, Elena Florea-Burduja, Daniela Farîma, Marcela Irovan	Textile products for people with disabilities by breast cancer (current stage)	
3.	Viorica Comşa, Ion Verzea	Virtual organizing – current trend in the challenging situation of today	
4.	Elena Florea-Burduja, Aliona Raru, Daniela Farîma, Marcela Irovan	The analysis of the assortment of products for people with lower limb amputations (current stage)	
5.	Mitrea Curpanaru Gabriela-Livia	The role of school managers in implementing the quality of education	
6.	Mitrea Curpanaru Gabriela-Livia	Application of total quality management (TQM) in education	
7.	Andreea Nistorac	Study of green deal neutral climate targets with respect to carbon dioxide emissions in the European Union	
8.	Daniela Solovastru Ivan, Ion Verzea	Analysis of the risk management model in the territorial administrative units	
9.	Camelia Angelica Dâmbean, Rozalia Manuela Gabor	Emotional intelligence and occupational stress, consequences in human resource management in industry	
10.	Ioan David Legman, Rozalia Manuela Gabor		

**BIPI Section: HYDROTECHNICS**

<https://hgim.tuiasi.ro/cercetare/buletinul-institutului-politehnic-din-iasi-sectia-hidrotehnica/>

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	Authors	Manuscript	Conference section
1.	Sticea Ștefan-Andrei , Luca Mihail	Studies and research on water losses from irrigation systems	<b>Civil Engineering and Installations</b>
2.	Sergiu Popescu, Mihail Luca	Initial data analysis for the establishment of the agricultural cadastral system in Straseni district, the Republic of Moldova	
3.	Sion Paul Vivian, Luca Mihail	Ecological state considerations of the Moldova river in the Cordun area	
4	Prăjanu Costel-Cătălin, Stătescu Florian, Toma Daniel, Vîrlan (Toma) Cristina-Mihaela	The dissolved oxygen concentration (DO) from an A2/o bioreactor supplied with counter current oxygen	

**BIPI Section: CONSTRUCTIONS and ARCHITECTURE**

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	Authors	Manuscript	Conference section
1.	Albu Doina-Cezara	Use of limestone blocks in constructions in the Republic of Moldova	<b>Civil Engineering and Installations</b>
2.	Hauși Sorin Bogdan	Issues regarding the appropriateness of using precast reinforced concrete frame structures compared to monolithic reinforced concrete frame structures, in office buildings and residential buildings	